

1600

DATE: 08/21/2003

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/826,361B

TIME: 16:25:18

P. 4

TECH CENTER 1600/2900

Input Set : A:\2355-124 Seq List.txt Output Set: N:\CRF4\08212003\H826361B.raw

3 <1100 APPLICANT: Mosselman, Sietse

Dijkema, Fein ENTERED 6 <120 - TITLE OF INVENTION: Novel Estrogen Receptor ϵ -(130)- FILE REFERENCE: 0/36193 US

C--> 10 <140> CURRENT APPLICATION NUMBER: US/08/826,361B

C--> 10 <141> CURRENT FILING DATE: 1997-03-26

10 01500 PRIOR APPLICATION NUMBER: US 08/826,361

11 (151) PRIOR FILING DATE: 1997-03-26

13 K150 - PRIOR APPLICATION NUMBER: EP 96203284.3

14 01510 PRIOR FILING DATE: 1096-11-22

10 0150 - PRIOF APPLICATION NUMBER: EP 96200820.7

17 (181) PRIOR FILING DATE: 1496-03-26

14 - 160 - NUMBER OF SEQ ID NOS: 32

21 ×170× SOFTWARE: Patentin version 3.0

33 -3210. SEQ ID NO: 1

24 -0011 - DENGTE: 1434

15 CO12 - TYPE: DNA

	$-0.113 \pm 0.8 \text{GA}$	VISM: Homo s	saplens				
F	-:100. SEQUE	ENCH: 1					
	atqaattaca	goutthoosg	-bautiqticact	aactiggaag	gtgggcatgg	toggoagado	ijij.
3.1	чравдосова	athtg:/gtg	godaadacot	gggdaddttt	otootttagt	ggtocatogo	1.0
: 2	sagthat dad	atotgtutgo	ggaabotoaa	aagagtooot	ggtgtgaagc	aagatogota	1 % ()
. г	paadadaddt	tacctiftasa	рацацадара	otgaaaagga	aggttagtgg	gaaccgttgc	240
2.7			aggsticaaag				30:0
			otatqgaqto				1.1
			tautquitat				4. 0
			otypopággod				450
			фафафафафа				5.40
			atqtqaaqqa				F) (1
			agabqbbbtg				660
			rotigat dago				72.0
			प्राचित्रवाद्यव्यव				750
			ggagot bagb				F4.1
			gatggggctg				1000
			ingtitict ggab				16.0
			notiggdaalot				11
			naaggocatg				1000
			†gacagcagc				1:41
			gat toccaag				11.00
			detentigated				1:+3
			gtgcaaaaat				13.11
			Lagauggtga				1350
			-taaagagggc				1434
	2. 3.53	, ,	2 222	~	-		

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Input Set: A:\2355-124 Seq List.txt
Output Set: N:\CRF4\08212003\H826361B.raw

```
77 KB10 - SEQ ID NO: 2
78 -0011 - LENGTH: 0150
7 + Cli - TYPE: DNA
80 -0015 - ORGANISM: Homo sapiens
8. 4400 - SEQUENCE: 2
Excitivation goattoccar caatitoact aactiggaag gigggooigg icggcagaec
85 adia roccas at grightigtig godaadacht gggcadditt otdottttagt ggtdcatogd
                                                                           1.3
                                                                          150
£7 dantilatibad atomytatgo gyaabotbaa aagagtoobt ggtgtgaago aagatogbta.
                                                                           241
69 quadimacon taborigiaaa bagagagada bigaaaaagga aggitagiigg gaadbijiigo
                                                                           360
91 godanosoty stactogaco aggitoaaag agggatgoto actiotogogo tytotgoago
                                                                           300
9) quitta goal oggrafatoa otatggagto tggtogtgtg aaggatgtaa ggootttttt
                                                                           4.00
9% augalmados trogados tabalquetat attitutocag otacabatos gigitacabio.
                                                                          4 - 1
97 quitas asacc goorcasque otgobagged tgeogaette ggaagtgtta egaagtgjja.
                                                                           541:
99 athqrigaaqt gtqqctoccq gagaqagaga tqtggqtacc gccttgtgcg gagacagaga.
101 antirogalig appaget goalletgtgoogge laaggebaaga gaagtggoog lobacgogee
103 dyantgeging agetgetget ggasgebetg ageeoegage agetagtget eacceteetg
                                                                           \{e_i,e_i\}
                                                                           7.10
105 quaryitaans squisscatat gotqatbage egococaqtq egocottcac egaggicted
                                                                           750
107 atmatgator contraccae gritggoogae aaggagiigg bacacaigai cagcigggoo
109 Auguagatic conjectityt ggageteage etgitlegaed aagtgegget eitggagage
                                                                           > 4 Ú
                                                                           900
111 EqtEqgatqq agentgttaat gatggggetg atgtggeget caattgacca cocoggeaag
113 stoateting stocagatet tyttetygae agggatgagg ggaaatgegt agaaggaatt
                                                                          10000
115 otgqqaaat it tidabatgot ootggoaact abttbaaggt ttogagagtt aaaactocaa.
117 Gada Ragaut architetatat paaggopatg atoptgotea attopagtat giacoptota
                                                                          1980
119 glounagoga objacquatgo tgacagoago oggalgotigg etcaptigot gaalogoogig - 1140
111 encountgent tygtttgggt gattgodaag agoggbatot botoodagda goaatobatg
                                                                         1.000
1.3 machagera accidentat getectytee caegicagge atgegaggig a
                                                                          1251
125 4010 + SEQ ID NO: 3
1.6 -011 - LENGTH: 66
117 -0.10 - TYPE: PRT
12% -0.13 - OR MANISM: Homo sapiens
130 - 400 - SEQUENCE: 3
1/1 Cys Ala Mal Cys Ser Asp Tyr Ala Ser Gly Tyr His Tyr Gly Mal Trp
                                         1:1
104 Ser Cys Glu Giy Cys Lys Ala Phe Phe Lys Arg Ser Ile Glr Gly His
197 Asr. Asp Tyr Ile Cys Pro Ala Thr Ash Gln Cys Thr Ile Asp Lys Ash
138
                             40
140 Ard Arg Lys Sor Cys Gln Ala Cys Arg Lea Arg Lys Cys Tyr Glu Val
141 50
145 Gl; Met
144 65
146 -0.100 SEQ ID NO: 4
147 -0.11: LENGTH: 233
148 -0100 TYPE: PET
149 -0 130 ORGANISM: Home sapiens
151 <4000 SEQUENCE: 4
151 Leu Val Leu Thr Leu Leu Glu Ala Glu Prc Prc His Val Leu Ile Ser
                    c
C
153 1
                                         10
                                                              1.5
155 And Pro Ser Ala Pro Phe Thr Glu Ala Ser Met Met Ser Leu Thr
```

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Input Set : A:\2355-124 Seq List.txt Output Set: N:\CRF4\08212003\H826361B.raw

156				20					25					30		
1' "	Lys	Leu	Ala	As p	Lys	Glu	Leu	$\nabla a 1$		M⊕t	Il∈	Ser	Trp	Ala	Lys	Lys
11.4			35					11)					45			
$1 \mapsto 1$	$I \mathrel{..} \oplus$	Pro	Gly	E∷.∈	Val	Glu	Leu	ger	Leu	Ph.e	Asr	Gln	Val	Arg	Leu	Leu
16		50					55					9Ú				
		Ser	Суз	Tir	M∈t		Val	Lieau	Met	Met		L⊕u	Met	Trp	Arg	
1						70	_				75				-	8 O
	I.i •⊕	Asp	His	E.1.0	_	Lys	Leu	He	F'r.⊖		Pro	Asp	Leu	vál	Б€П 95	Asp
165	D	r	.5.1	21	85		17 - 1	,	.~1	90 11-	T	(21)	Ile	Dikor	, .	Mar. +
171	Αιū	Ma D	'D L J	100 -	ت زند	S I	val	1.31.4. U	105	115	11614	ا 1.1 اد	1.1 (0)	110	Ma _E	THUC
	*	Læn	Δla		Ti.r	Ser	Ama	Phe		Glu	Liena	Lus	Leu		His	Livis
1/:	ш.,	11.5.0	115		1	J	9	120				1 ~	125			,1 -
	Glu	Tyr		Cys	V.a l	Lys	Ala		Lle	Leu	Leu	Asn	Ser	Se:	Met	Tyr
177		130				.4	1.35					140				
104	Pro	Leu	Val	Tr.r	Ala	Th.r	Glr_{i}	Asign	Ala	Asp	Ser	$\operatorname{\mathfrak{Zer}}$	Arq	7.7.8	Leu	Ala
	145					150					155					160
1	His	Leu	Leu	Asn	Al á	Val	Thir	$E_{\Gamma}(\mathbf{r})$	Alla		ΙένV	Trr	Val	Il€		155
$1 \in \gamma$					145					170	_	_		_	175	-
	her	Gly	LLe		Ser	Glri	Glri	Glri		Met.	Arq	Lieu	Alā		Leu	ьеи
156			r	180	11. 0	17.1	T	:::	185	O' E. W	7) -1		(71.,	190 Mot	<i>(</i> -1.)	u: a
189		- J - 1 - 1 - J	195	2.672	n. :	V ct.1	HI G	nua Žuk	Mila	S1611	A.c.i.	ت پر نہ	Gly 205	PIC: C	JIU	11.12
		ا دھر '		Most	Tare	.~,,,,	·,,'e		Ma I	Val	Pro	Val	Tyr	Aso	Len	Taesti
10.3		.:10	2 112.71			J J C	215					220	1			
	Seu	Glu	Met	Leu	A. n	Alā	His	Val	Leu							
1:44	Leu Lis	Glu	Met	Leu	Asm	Ala 230	His	Val	Leu							
194 195	:5			Leu Di NO:			His	Val	Leu							
195 195 197 198	. 25 -210 -211	D: SI	EQ: II ENGTH	D NO: H: 47	<u>.</u>		His	Val	Leu							
199 195 197 198 199	. 25 -210 -211 -2112	01 SI 11 LI 21 TY	EQ II ENGTI YPE:	D NO: H: 47 PRT	: 5 77	230			Leu							
104 195 197 198 199 200	. 25 -210 -312 -312 -312	0:- SI 1:- LI 2:- TY 3:- OI	EQ II ENGTH YPE: RGANI	D NO: H: 4 [°] PRT ISM:	: 5 77 Homa				Leu							
194 195 197 199 199 200 200	. 25 -210 -111 -1112 -2113 -400	00 SI 10 LI 20 TY 30 SI	EQ II ENGTH YPE: RGANI EQUEN	D NO: H: 4° PRT ISM: NCE:	: 5 77 Ηοπ.α 5	230 o sag	oi er.s	6		ጣኑ. ሎ	Λen.	Ten	Cl.	oller.	(C) sz	Pro
194 195 197 198 199 200 200 200	15 -0.110 -0.111 -0.111 -0.111 -0.400 Met	00 SI 10 LI 20 TY 30 SI	EQ II ENGTH YPE: RGANI EQUEN	D NO: H: 4° PRT ISM: NCE:	: 5 77 Home 5 Ile	230 o sag	oi er.s	6			Asn	Leu	Glu	Gly		Pro
194 195 197 198 199 200 200 203 204	.25 -210 -211 -2112 -2113 -400 Met	O: SI 1: LI 2: TY 3: OI O: SI Asn	EQ II ENGTH YPE: RGANI EQUEN Tyr	D NO: H: 47 PRT ISM: NCE: Ser	: 5 77 Homo 5 Ile 5	230 Sar Pro	oiens Ser	S Ash	Val	10					1.5	
194 195 197 199 200 200 003 204 006	.25 -210 -211 -2112 -2113 -400 Met	O: SI 1: LI 2: TY 3: OI O: SI Asn	EQ II ENGTH YPE: RGANI EQUEN Tyr	D NO: H: 47 PRT ISM: NCE: Ser	: 5 77 Homo 5 Ile 5	230 Sar Pro	oiens Ser	S Ash	Val	10			Glu Thr		1.5	
194 195 197 198 199 200 200 303 204 306 207	.05 +210 +011 +011 +011 +400 Met J	D: SI 1: LH 2: TY 3: OF SI Asn Arg	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln	D No: H: 47 PRT ISM: NCE: Ser Thr	: 5 77 Home 5 Ile 5 Thr	250 sap Pro Ser	oiens Ser Pro	Asn Asn	Val Val 25	10 Leu	Trp	Pro		Pro 30	15 Gly	His
194 195 197 198 200 200 203 204 207 204 210	.05 +0210 +0010 +0010 +000 Met Gly	D: SH 1: LH 2: TY B: OH D: SH Asn Arg	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Pro	D No: H: 47 PRT ISM: ISM: Ser Thr 20 Leu	: 5 77 Home 5 Ile 5 Thr	250 Sar Pro Ser Val	Diens Ser Pro His	Asn Asn Ang 40	Val Val 25 Gln	10 Leu Leu	Trp Ser	Pro His	Thr Leu 45	Pro 30 Tyr	15 Gly Ala	His Glu
194 195 197 198 200 200 203 204 207 204 210	.05 +0210 +0010 +0010 +000 Met Gly	D: SH 1: LH 2: TY B: OH D: SH Asn Arg	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Pro	D No: H: 47 PRT ISM: ISM: Ser Thr 20 Leu	: 5 77 Home 5 Ile 5 Thr	250 Sar Pro Ser Val	oiens Ser Pro His Cys	Asn Asn Ang 40	Val Val 25 Gln	10 Leu Leu	Trp Ser	Pro His Leu	Thr Leu	Pro 30 Tyr	15 Gly Ala	His Glu
194 195 197 199 200 200 304 304 306 207 204 210 317 318		DI- SH 12- TM BI- OH DI- SH Asn Arg Ger Gln 50	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Ero 35 Lys	D NO: PRT ISM: NCE: Ser Thr 20 Leu	: 5 77 Home 5 Ile 5 Thr Val	250 Sar Pro Ser Val	oiens Ser Pro His Cys 55	Asn Asn Arg 40 Glu	Val Val 15 Gln Ala	10 Leu Leu Arg	Trp Ser Ser	Pro His Leu 60	Thr Leu 45 Glu	Pro 30 Tyr His	15 Gly Ala Thr	His Glu Deu
194 195 197 199 200 200 303 204 306 210 311 315	.25 -210 -211 -211 -211 -400 Met 3 Gly Leu Pro	DI- SH 12- TM BI- OH DI- SH Asn Arg Ger Gln 50	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Ero 35 Lys	D NO: PRT ISM: NCE: Ser Thr 20 Leu	: 5 77 Home 5 Ile 5 Thr Val	250 sap Pro Ser Val Trp	oiens Ser Pro His Cys 55	Asn Asn Arg 40 Glu	Val Val 15 Gln Ala	10 Leu Leu Arg	Trp Ser Ser Val	Pro His Leu 60	Thr Leu 45	Pro 30 Tyr His	15 Gly Ala Thr	His Glu Leu Cys
194 195 197 199 200 200 203 204 206 207 209 210 210 211 213	.25 -210 -211 -2112 -400 Mot -3 Gly Lou Pro 65	OH SH 10 LH 120 TY 31 OF SH Ash Arg Ger Gin 50 Val	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Fro 35 Lys	D No: H: 47 PRT ISM: NCE: Ser Thr 20 Leu Ser Arg	: 5 77 Home 5 Ile 5 Thr Val Pro	250 sag Pro Ser Val Trp Thr	oiens Ser Pro His Cys 55 Leu	Asn Asn Arg 40 Glu Lys	Val Val 15 Gln Ala Arg	10 Leu Leu Arg	Trp Ser Ser Val 75	Pro His Leu 60 Ser	Thr Leu 45 Glu Gly	Pro 30 Tyr His	15 Gly Ala Th.r	His Glu Deu Cys
194 195 197 198 200 200 303 204 306 210 313 315 316 317	.25 -210 -211 -2112 -400 Mot -3 Gly Lou Pro 65	DIE SH 10 LH 120 TN 31 OF SH Asn Arg Ger Gin 50 Val	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Fro 35 Lys	D No: H: 47 PRT ISM: NCE: Ser Thr 20 Leu Ser Arg	Homes For Thir Val Pro Glu	250 sag Pro Ser Val Trp Thr	oiens Ser Pro His Cys 55 Leu	Asn Asn Arg 40 Glu Lys	Val Val 15 Gln Ala Arg	10 beu beu Arg Lys	Trp Ser Ser Val 75	Pro His Leu 60 Ser	Thr Leu 45 Glu	Pro 30 Tyr His	15 Gly Ala Th.r Arg	His Glu Deu Cys
194 195 197 198 200 200 303 204 306 207 209 210 311 315 316 317	.25 -210 -211 -211 -400 Met -3 -61y Leu Pro -65 -Ala	DE SE 12 IN 3. OB 3. OB 3. OB Ash Arg Gen 50 Val Sen	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Pro 35 Lys Asr.	D NO: FRT IEM: NCE: Ser Thr 20 Leu Ser Arg Val	Homos 5 Ile 5 Thir Val Pro Glu Thr 85	250 sap Pro Ser Val Trp Thr 70 Gly	Ser Pro His Cys 55 Leu Pro	Asn Asn Arg 40 Glu Lys Gly	Val Val 25 Gln Ala Arg Ser	10 Leu Arg Lys 90	Trp Ser Ser Val 75 Arg	Ero His Leu 60 Ser Asp	Thr Leu 45 Glu Gly Ala	Pro 30 Tyr His Asn	15 Gly Ala Thr Arg Phe	His Glu Lea Cys 80 Cys
194 195 197 198 200 200 303 204 306 207 209 210 313 315 316 317	.25 -210 -211 -211 -400 Met -3 -61y Leu Pro -65 -Ala	DE SE 12 IN 3. OB 3. OB 3. OB Ash Arg Gen 50 Val Sen	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Pro 35 Lys Asr.	D NO: H: 47 PRT ISM: NCE: Ser Thr 20 Leu Ser Val	Homos 5 Ile 5 Thir Val Pro Glu Thr 85	250 sap Pro Ser Val Trp Thr 70 Gly	Ser Pro His Cys 55 Leu Pro	Asn Asn Arg 40 Glu Lys Gly	Val Val 15 Gln Ala Arg Ser Gly	10 Leu Arg Lys 90	Trp Ser Ser Val 75 Arg	Ero His Leu 60 Ser Asp	Thr Leu 45 Glu Gly	Pro 30 Tyr His Asn	15 Gly Ala Thr Arg Phe	His Glu Lea Cys 80 Cys
194 195 197 198 200 200 003 204 006 207 209 210 013 015 016 017 018 019 019 019	.05 -010 -011 -011 -010 -0400 Met -1 -01 -01 -01 -01 -01 -01 -01 -01 -01	D: SH 1: LH 2: TY 3: OH D: SH Asn Arg Ser Gin 50 Val Ser	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Fro 35 Lys Asn Fro Cys	D NO: H: 47 PRT ISM: NCE: Ser Thr 20 Leu Ser Val Ser 100	Hond 5 Thr Val Pro Glu Thr 85 Asp	250 sap Pro Ser Val Trp Thr 70 Gly	Ser Pro His Cys Se Leu Pro	Asn Asn Arg 40 Glu Lys Gly Ser	Val Val 25 Gln Ala Arg Ser Gly 105	10 Leu Leu Lys Lys 90 Tyr	Trp Ser Ser Val 75 Arg	Ero His Leu 60 Ser Asp	Thr Lew 45 Glu Gly Ala Gly	Pro 30 Tyr His Asn His Val	Ala Thr Arg Phe 95 Trp	His Glu Deu Cys 80 Cys Ser
194 195 197 198 200 200 003 204 006 207 209 210 013 015 016 017 018 019 019 019	.05 -010 -011 -011 -010 -0400 Met -1 -01 -01 -01 -01 -01 -01 -01 -01 -01	D: SH 1: LH 2: TY 3: OH D: SH Asn Arg Ser Gin 50 Val Ser	EQ II ENGTH YPE: RGANI EQUEN Tyr Gln Fro 35 Lys Asn Fro Cys	D NO: H: 47 PRT ISM: NCE: Ser Thr 20 Leu Ser Val Ser 100	Hond 5 Thr Val Pro Glu Thr 85 Asp	250 sap Pro Ser Val Trp Thr 70 Gly	Ser Pro His Cys Se Leu Pro	Asn Asn Arg 40 Glu Lys Gly Ser	Val Val 25 Gln Ala Arg Ser Gly 105	10 Leu Leu Lys Lys 90 Tyr	Trp Ser Ser Val 75 Arg	Ero His Leu 60 Ser Asp	Thr Leu 45 Glu Gly Ala	Pro 30 Tyr His Asn His Val	Ala Thr Arg Phe 95 Trp	His Glu Deu Cys 80 Cys Ser
194 195 197 199 200 200 303 204 306 207 209 210 310 310 311 315 311 314 315 314 315	.05 -010 -011 -010 -400 Met 	D: SH 1: LH 2: TY 3: OH D: SH Asn Arg Ser Gln Ser Val Ser Val	EQ II ENGTH YPE: RGANI EQUENT Tyr Gln Pro 35 Lys Asn Pro Cys Gly 115	D NO: H: 47 PRT ISM: Ser Thr 20 Leu Ser Arg Val Ser 100 Cys	Hond File Thr Val Pro Glu Thr 85 Asp	230 sap Pro Ser Val Trp Thr 70 Gly Tyr Ala	oiens Ser Pro His Cys 55 Leu Pro Ala Phe	Asn Asn Arg 40 Glu bys Gly Ser Phe 100	Val Val 25 Gln Ala Arg Ser Gly 105 Lys	10 heu heu Arg Lys Lys 90 Tyr Arg	Trp Ser Ser Val 75 Arg His	Pro His Leu 60 Ser Asp Tyr	Thr Leu 45 Glu Gly Ala Gly Gln 125	Pro 30 Tyr His Asn His Val 110 Gly	Ala Thr Arg Phe 95 Trp	His Glu Deu Cys 80 Cys Ser

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```
130
THO Arg Lys Ser Cys Gln Ala Cys Arg Leu Arg Lys Cys Tyr Glu Val Gly
                             185
                      150
. ) Met Val Lys Cys Gly Ser Arg Arg Glu Arg Cys Gly Tyr Arg Leu Val
                   1.65
                                       170
. 54
136 Arg Arg Gln Arg Ser Ala Asp Glu Gln Leu His Cys Ala Gly Lys Ala
                                                       1.90
               180
                                   185
Lig Lys Ard Ser Gly Gly His Ala Pro Arg Val Arg Glu Leu Leu Leu Asp
.. 4::
                               200
                                                   205
           1.95
.4. Ala Leu Ser Pro Glu Gln Leu Val Leu Thr Leu Leu Glu Ala Glu Pro
                           215
200
[14] Pro His Val Led The Ser Arg Pro Ser Ala Pro Phe Thr Glu Ala Ser
                       230
                                           235
.44 Met Met Met Ser Leu Thr Lys Leu Ala Asp Lys Glu Leu Val His Met
                   245
                                       250
.51 Ile Ser Trp Ala Lys Lys Ile Pro Gly Phe Val Glu Leu Ser Leu Phe
                                                       270
               240
                                   265
154 Asp GIn Val Arg Leu Beu Glu Ser Cys Trp Met Glu Val Beu Met Met
. 55
                                                   285
    275
                               280
,57 Gly bea Met Trp Arg Ser Ile Asp His Pro Gly Lys Leu Ile Phe Ala
1.59 1.30
                           295
                                               300
. WO Pro Asp Leu Val Leu Asp Arg Asp Glu Gly Lys Cys Val Glu Gly Ile
                       3.10
                                           3.15
.65 Leg 3lu Ile Phe Asp Met Leu Leu Ala Thr Thr Ser Arg Phe Arg Glu
164
                    325
                                       330
.66 Lea bys Lea Gir. His Lys Glu Tyr Lea Cys Val Lys Ala Met Ile Lea
                                                       350
               3.40
                                   345
169 New Ash Ser Ser Met Tyr Pro Leu Val Thr Ala Thr Sln Asp Ala Asp
.. 7:::
           355
                               36ú
                                                   365
.77 Ser Per Arg Lys Leu Ala His Leu Leu Asr Ala Val Thr Asp Ala Leu
      570
                           375
.75 Val Trp Val Ile Ala Lys Ser Gly Ile Ser Ser Glr Glr Gln Ser Met
                       3.90
                                           395
178 And Leu Ala Ash beu Leu Met Leu Leu Ser His Val Ard His Ala Ser
                   465
                                       410
. HI Ash Thys Gly Met Glu His Leu Leu Ash Met Lys Cys Lys Ash Val Val
               4:0
                                   425
.84 Pro Val Tyr Asp Leu Leu Leu Glu Met Leu Ash Ala His Val Leu Arg
9.5
           4.35
                               440
                                                   445
.W7 Gly Cys Lys Ser Ser He Thr Gly Ser Glu Cys Ser Pro Ala Glu Asp
    4.5-0
                           455
                                               460
.90 Ohr Lys Ser Lys Glu Gly Ser Gln Asn Pro Gln Ser Gln
                       470
. 91 465
.33 -1100 SEQ ID NO: 6
294 - 2112 LENGTH: 416
295 HILLS TYPE: PET
196 HL13H ORGANISM: Homo sapiens
.78 GOOD SEQUENCE: 6
199 Met Asn Tyr Ser Ile Pro Ser Asn Val Thr Asn Leu Glu Gly Gly Pro
```

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200	1				e,					10					15	
-	_	Ara	Gln	Thr	Thr	Ser	Erro	Asn	Val	Letu	Trr	Pro	Thr	Pro	Gly	His
5:1:	J = 1	5		2 ()					25		•			5 Q.	•	
-	.€1:	Ser	Pro		:/al	7al	His	Arg		Leu	Ser	His	Leu	Twr	Ala	Glu
30 m	2000		35					40					4.5	4		
	Firm	Gln		Ser	Pro	Trr	Cys	Glu	Ala	Ara	Ser	Leu		His	Thr	Leu
(3) (3) at		5Ú	1				5 J. J					60				
-	Erron		Aar	Arm	(21 h	Thr		Lys	Aria	Lys	Va 1	Ber	Glv	Asr.	Ara	Ovs
5	65	* 1,5, 4.	, , .	2		70		23] =	9	-,, -	7.6		1			80
- · · ·		Sar	Pro	Va 1	Thr		Firms	G1.7	Ser	Lws	Ara	Asir	Ala	His	Phe	Cvs
5	,				85			, - I		901	-	[95	1
	Ala	V.a.1	Cus	Ser		Tyr	Ala	Ser	Glv	Tvr	His	Tyr	Glv	Val	Trp	Ser
318			- 1 -	100	F	. 1			105			- , -	1	110	1	
	(C) 1/15.	Glu	Glv		Lus	Ala	Phi	Filte		And	Ser	I Le	:31n		His	Asn
5. · :	- y -		115	.] .	22,710			1.15	-1-				125	1		-
	Asn	Tyrr		17110	Pro	Ala	Thr	Asr.	G15	Cyre.	Th. r	I i e		Lys	Asn	And
3.4	110.00	130	11.0	- 2		1110	135		5111	,		140		27.1		
	Arm		C _{II} , y	ع بارا	Gla	Ala		Ārģ	Lee 1	Ara	Lars		Tyr	Glu	Vál	Glv
	145	22,3 0		- , , -		150	1				10,2	. , , -	1 -			1.60
		7.41	7,578	17110	GLV		Arm	Ārģ	G1 1	Arm	Chis	Gly	Tur	Ard	Len	
3.70	111	V 1,4 ,4.	20 g C	-/.1 ~	1,5	4.7 Car &	**** =		31.3	170	~.1 ~				175	
	Ara	Ara	Glr	Aria		Ala	Aero	Glu	Gla		His	Cys	Ala	Glv		Ala
353	7 1 1 E	my	21.11	160	•	7 1 1.13	1 rest	.,, ,	185	21.2	112	-		190		
	Lus	Ara	Ser		G` 5	His	Ala	Fire		Val	Ara	G11:	Len	Leou	Leu	Asp
306	11 y	my	1 45	-, . y	<u>.</u> 3	11.1.	111.5	, and	1 + 2 3	• • • • • • • • • • • • • • • • • • • •			205		2	
	Z			D. M.C.	G' 11	(31+	*	Val	Tasan	ጥት ተ	Len:	50011		Ala	Glu	Pro
3.54	234.5	210	.J	L _ '		1.7 1.7 1	215	V - 2 I		. ,		2.10	3.1.3			
	D.v.c.		Val	÷1	110	S. a. r		Erzho	Ser	A a	Pro		Thr	Gli	Ala	Ser
34.		11.1	****		• • • • • • • • • • • • • • • • • • • •	230					136					340
		Met	Mas.+	Ser	Len		Lus	Leu	Ala	ABT)	Iws	67.11	Leu	Val	His	
945	11	1130	11.70		245		. 1 -			250	,1				255	
	Il.	Ser	Trr	Ala		+ ₁₀₇₈	112	Fire	Glv		Va l	17.11	Leu	Ser	Leu	Phe
348				260	-,-	**·.I **			265					270		
	Asn	Glr.	Va I		Lieni	Leeu	Glu	Ser		Trro	Met	Glu	Val	Leu	Me:t	Met
351			275					285	- 1 -	1.			285			
	Glv	Lenn		Tro	Ara	Ser	11=	Asp	His	Enro	Glv	Lvs		I l.e	Phe	Alā
35.4	J. 1	290		F			295	1-			1	300				
	Pro		T (=111	Val	Len	Asr.	Ara	Λερ	Glu	GIV	Live	Ova	Val	Glu	Glv	He
357		[-				310		1-		2	315	-			1	3,10
_		Glin	Tle	Phe	Asr		Leu	Lena	Ala	T1.r	Thr	Ser	Ara	Phe	Ard	Gin
560	25.0				315					3.50					335	
361	∈11	Lyrs	Lear	Gir		Lvs	Glu	Tyr	Leu		Val	Dire	Ala	Met		בַריים:
363		1		340		7			345	-		**		350		
	Leu	Asr.	Ser		Met	Tvr	Find	1,6312	Val	Thr	Ala	Thir	Gln	Asr	Ala	Asp
366			35.5			1 -		560					365	-		
	Ser	Ser		Lvs	Leu	Ala	Eis	Leu	Leu	Asn	Ala	Va.1		Asp	Ala	Leu
364		370	9	-1-			375			_	_	380		T.	-	
	Vál		Val	Ile	Ala	Lvs		Gly	Ile	Ser	Ser		Gln	Gln	Ser	Meet
371		1.	_	-		390		1			395					400
-						-										

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/08/826,361B

DATE: 08/21/2003
TIME: 16:25:19

Input Set : A:\2355-124 Seq List.txt Output Set: N:\CRF4\08212003\H826361B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Fos. 3,15,18 Seq#:8; N Fos. 12,18,24,27

VERIFICATION SUMMARY

DATE: 08/21/2003 TIME: 16:25:19 PATENT APPLICATION: US/08/826,361B

Input Set : A:\2355-124 Seq List.txt

Output Set: N:\CRF4\08212003\H826361B.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0